

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	15 February 2025
Team ID	LTVIP2025TMID33633
Project Name	GrainPalette-A deep learning odyssey in rice type classification
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Image Upload and prediction	USN-1	As a user, I can give an rice grain image to system for analysis	3	High	4
Sprint-1	Image Upload and prediction	USN-2	As a user, I will receive predicted rice type as a result from system	1	High	4
Sprint-2	user interface enhancements	USN-3	As a user, I can comfortably see my uploaded image and prediction result in a simple user-friendly web interface	2	Medium	4
Sprint-2	About and contact pages	USN-4	As a user, I can log into the application by entering email & password	2	Medium	4
Sprint-3	Model training	USN-5	As a developer, i can build and validate a proper mobilenetV2 model for rice grain classification	4	High	4
Sprint-4	error handling	USN-6	As a user i can be shown an inappropriate message if i upload an Invalid image	1	Low	4
Sprint-4	Final integration	USN-7	As a team we will integrate frontend,backend and model with full testing	7	High	4

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	4	6 Days	01 Jun 2025	06 Jun 2025	4	06 Jun 2025
Sprint-2	4	6 Days	07 Jun 2025	12 Jun 2025	4	12 Jun 2025
Sprint-3	4	6 Days	13 Jun 2025	18 Jun 2025	4	18 Jun 2025
Sprint-4	8	6 Days	19 Jun 2025	24 Jun 2025	8	24 Jun 2025

Velocity:

Total completed story points in sprint 1: **4**

Duration: 6 days story points/day

velocity= $4/6 \sim 0.67$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>